

As of June 20, 2016

- 35 refereed papers
- 13 *first-author* refereed papers
- 6 second-author refereed papers
- 1624 citations to refereed papers (from NASA ADS)
- 416 citations to *first-author* refereed papers (from NASA ADS)
- 21 Hirsch *h*-index (21 papers with ≥ 21 citations)

Submitted or in preparation:

1. Malkan, M.; Cohen, D. P.; Maruyama, M.; Kashikawa, N.; **Ly, C.**; Shimasaku, K.; Hayashi, M.; Ishikawa, S.; Motohara, K.; “*Luminosity Function, Physical Properties, and Clustering of Lyman-Break Galaxies at $z \sim 3$ in the Subaru Deep Field*”, 2016, *AAS Journal*, in preparation

First-authored refereed:

1. **Ly, C.**; Malkan, M. A.; Rigby, J. A.; Nagao, T.; “*The Metal Abundance across Cosmic Time (MACT) Survey II: Evolution of the Mass–Metallicity Relation over 8 Billion Years, Using [OIII]4363Å-based Metallicities*”, 2016, *Astrophysical Journal*, accepted ([arXiv:1602.01098](https://arxiv.org/abs/1602.01098))
2. **Ly, C.**; Malhotra, S.; Malkan, M. A.; Rigby, J. R.; Kashikawa, N.; de los Reyes, M. A.; Rhoads, J. E.; “*The Metal Abundances across Cosmic Time (MACT) Survey I: Optical Spectroscopy in the Subaru Deep Field*”, 2016, *Astrophysical Journal Supplements*, accepted ([arXiv:1602.01089](https://arxiv.org/abs/1602.01089))
3. **Ly, C.**; Rigby, J. R., Cooper, M. C.; Yan, R.; “*Metal-poor, Strongly Star-forming Galaxies in the DEEP2 Survey: The Relationship between Stellar Mass, Temperature-based Metallicity, and Star Formation Rate*”, 2015, *Astrophysical Journal*, 805, 45 ([arXiv:1412.1834](https://arxiv.org/abs/1412.1834))
4. **Ly, C.**; Malkan, M. A.; Nagao, T.; Kashikawa, N.; Shimasaku, K.; Hayashi, M.; “*Direct Gas-phase Metallicities, Stellar Properties, and the Local Environment of Emission-line Galaxies at Redshifts below 0.9*”, 2014, *Astrophysical Journal*, 780, 122 ([arXiv:1307.7712](https://arxiv.org/abs/1307.7712))
5. **Ly, C.**; Malkan, M. A.; Kashikawa, N.; Hayashi, M.; Nagao, T.; Shimasaku, K.; Ota, K.; Ross, N. R.; “*The Stellar Population and Star Formation Rates of $z \sim 1.5-1.6$ [O II] Emitting Galaxies Selected from Narrow-Band Emission-Line Surveys*”, 2012, *Astrophysical Journal*, 757, 63 ([arXiv:1206.4303](https://arxiv.org/abs/1206.4303))
6. **Ly, C.**; Malkan, M. A.; Kashikawa, N.; Ota, K.; Shimasaku, K.; Iye, M.; Currie, T.; “*Dust Attenuation and H α Star Formation Rates of $z \sim 0.5$ Galaxies*”, 2012, *Astrophysical Journal Letters*, 747, L16 ([arXiv:1202.0278](https://arxiv.org/abs/1202.0278))
7. **Ly, C.**; Malkan, M. A.; Hayashi, M.; Motohara, K.; Kashikawa, N.; Shimasaku, K.; Nagao, T.; Grady, C.; “*A Census of Star-Forming Galaxies at $z=1-3$ in the Subaru Deep Field*”, 2011, *Astrophysical Journal*, 735, 91 ([arXiv:1104.5019](https://arxiv.org/abs/1104.5019))
8. **Ly, C.**; Lee, J. C.; Dale, D. A.; Momcheva, I.; Salim, S.; Staudaher, S.; Moore, C.; Finn, R.; “*The H α Luminosity Functions and Star Formation Rate Volume Density at $z \sim 0.8$ from the NEWFIRM H α Survey*”, 2011, *Astrophysical Journal*, 726, 109 ([arXiv:1011.2759](https://arxiv.org/abs/1011.2759))
9. **Ly, C.**; Malkan, M. A.; Woo, J.-H.; Treu, T.; Kashikawa, N.; Shimasaku, K.; Yoshida, M.; “*Lyman-Break Galaxies at $z \approx 1.8 - 2.8$: GALEX/NUV Imaging of the Subaru Deep Field*”, 2009, *Astrophysical Journal*, 697, 1410
10. **Ly, C.**; Walker, R. C.; Junor, W.; “*High Frequency VLBA/VLBI Imaging of M87*”, 2007, *Astrophysical Journal*, 660, 200-205
11. **Ly, C.**; Malkan, M.; Kashikawa, N.; Shimasaku, K.; Doi, M.; Nagao, T.; Iye, M.; Kodama, T.; Morokuma, T.; Motohara, K.; “*The Luminosity Function and Star Formation Rate Between Redshifts of 0.07 and 1.47 for Narrow-band Emitters in the Subaru Deep Field*”, 2007, *Astrophysical Journal*,

657, 738-759

12. Ly, C.; De Young, D. S.; Bechtold, J.; “The Discovery of Extended Thermal X-Ray Emission from PKS 2152-699: Evidence for a “Jet-Cloud” Interaction”, 2005, *Astrophysical Journal*, 618, 609
13. Ly, C.; Walker, R. C.; Wrobel, J. M.; “An Attempt to Probe the Radio Jet Collimation Regions in NGC 4278, NGC 4374 (M84), and NGC 6166”, 2004, *Astronomical Journal*, 127, 119

Co-authored refereed:

14. Hayashi, M.; Ly, C.; Shimasaku, K.; Motohara, K.; Malkan, M. A.; Nagao, T.; Kashikawa, N.; Goto, R.; Naito, Y.; “Physical conditions of the interstellar medium in star-forming galaxies at $z \sim 1.5$ ”, 2015, *Publications of the Astronomical Society of Japan*, 67, 80 ([arXiv:1504.05589](#))
15. de los Reyes, M.; Ly, C.; Lee, J. C.; Salim, S.; Momcheva, I.; Feddersen, J.; Dale, D.; Ouchi, M.; Ono, Y.; Finn, R.; “The Relationship between Stellar Mass, Gas Metallicity, and Star Formation Rate for H α -selected Galaxies at $z \sim 0.8$ from the NewH α Survey”, 2015, *Astronomical Journal*, 149, 79 ([arXiv:1410.1551](#))
16. Salim, S.; Lee, J. C.; Ly, C.; Brinchmann, J.; Davé, R.; Dickinson, M.; Salzer, J. J.; Charlot, S.; “A Critical Look at the Mass-Metallicity-Star Formation Rate Relation in the Local Universe. I. An Improved Analysis Framework and Confounding Systematics”, 2014, *Astrophysical Journal*, 797, 126 ([arXiv:1411.7391](#))
17. Pirzkal, N.; Rothberg, B.; Ly, C.; Malholtra, S.; Rhoads, J. E.; Gorgin, N. A.; Dahlen, T.; Meurer, G. R.; Walsh, J. R.; Hathi, N. P.; Cohen, S. H.; Bellini, A.; Holwerda, B. W.; Straughn, A. N.; Mechtley, M.; “Emission-Line Galaxies from the Hubble Space Telescope Probing Evolution and Reionization Spectroscopically (PEARS) Grism Survey. II: The Complete Sample”, 2013, *Astrophysical Journal*, 772, 48 ([arXiv:1208.5535](#))
18. Momcheva, I. G.; Lee, J. C.; Ly, C.; Salim, S.; Dale, D. A.; Ouchi, M.; Finn, R.; Ono, Y.; “Nebular Attenuation in H α -selected Star-forming Galaxies from the NewH α Survey”, 2013, *Astronomical Journal*, 145, 47 ([arXiv:1207.5479](#))
19. Kashikawa, N.; Nagao, T.; Toshikawa, J.; Ishizaki, Y.; Egami, E.; Hayashi, M.; Ly, C.; Malkan, M. A.; Matsuda, Y.; Shimasaku, K.; Iye, M.; Ota, K.; Shibuya, T.; Taniguchi, Y.; Shioya, Y.; “A Ly α Emitter with Extremely Large Rest-Frame Equivalent Width of $\sim 900\text{\AA}$ at $z=6.5$: A Candidate of Population III-Dominated Galaxy?”, 2012, *Astrophysical Journal*, 761, 85 ([arXiv:1210.4933](#))
20. Urata, Y.; Tsai, P.; Huang, K.; Morokuma, T.; Yasuda, N.; Tanaka, M.; Motohara, K.; Hayashi, M.; Kashikawa, N.; Ly, C.; Malkan, M.; “Unusual Long and Luminous Optical Transient in the Subaru Deep Field”, 2012, *Astrophysical Journal Letters*, 760, L11 ([arXiv:1210.6909](#))
21. Lee, J. C.; Ly, C.; Spitzer, L.; Labbe, I.; Salim, S.; Persson, S. E.; Ouchi, M.; Dale, D. A.; Monson, A.; Murphy, D.; “A Dual Narrowband Survey for H α Emission from Galaxies at $z=2.2$: Demonstration of the Technique and Constraints on the H α Luminosity Function”, 2012, *Publications of the Astronomical Society of the Pacific*, 124, 782 ([arXiv:1205.0017](#))
22. Nakajima, K.; Ouchi, M.; Shimasaku, K.; Ono, Y.; Lee, J. C.; Foucaud, S.; Ly, C.; Dale, D. A.; Salim, S.; Finn, R.; Almaini, O.; Okamura, S.; “Average Metallicity and Star Formation Rate of Ly α Emitters Probed by a Triple Narrow-Band Survey”, 2012, *Astrophysical Journal*, 745, 12
23. Abramowski, A.; et al. (446 co-authors); “The 2010 very high energy gamma-ray flare & 10 years of multi-wavelength observations of M 87”, 2011, *Astrophysical Journal*, 746, 151
24. Kashikawa, N.; Shimasaku, K.; Matsuda, Y.; Egami, E.; Jiang, L.; Nagao, T.; Ouchi, M.; Malkan, M. A.; Hattori, T.; Ota, K.; Taniguchi, Y.; Okamura, S.; Ly, C.; Iye, M.; Furusawa, H.; Shioya, Y.; Shibuya, T.; Ishizaki, Y.; Toshikawa, J.; “Completing the Census of Ly- α Emitters at the Reionization Epoch”, 2011, *Astrophysical Journal*, 734, 119 ([arXiv:1104.2330](#))
25. Ota, K.; Ly, C.; Malkan, M. A.; Motohara, K.; Hayashi, M.; Shimasaku, K.; Morokuma, T.; Iye, M.;

- Kashikawa, N.; Hattori, Takashi; “[Spitzer Space Telescope Constraint on the Stellar Mass of a \$z = 6.96\$ Ly \$\alpha\$ Emitter](#)”, 2010, *Publications of the Astronomical Society of Japan*, 62, 1167
26. Doherty, M.; Tanaka, M.; DeBreuck, C.; **Ly, C.**; Kodama, T.; Kurk, J.; Seymour, N.; Stern, D.; Vernet, J.; Kajisawa, M.; Tanaka, I.; Venemans, B.; “[Optical and near-IR spectroscopy of candidate red galaxies in two \$z \sim 2.5\$ proto-clusters](#)”, 2009, *Astronomy & Astrophysics*, 509, 83
27. Acciari, V. A., et al. (392 co-authors); “[Radio Imaging of the Very-High-Energy \$\gamma\$ -Ray Emission Region in the Central Engine of a Radio Galaxy](#)”, 2009, *Science*, 325, 444
28. Hatsukade, B.; Iono, D.; Motohara, K.; Nakanishi, K.; Hayashi, M.; Shimasaku, K.; Nagao, T.; Tamura, Y.; Malkan, M. A.; **Ly, C.**; Kohno, K.; “[A Search for Molecular Gas toward a BzK-selected Star-forming Galaxy at \$z = 2.044\$](#) ”, 2009, *Publications of the Astronomical Society of Japan*, 61, 487
29. Hayashi, M.; Motohara, K.; Shimasaku, K.; Onodera, M.; Uchimoto, Y. K.; Kashikawa, N.; Yoshida, M.; Okamura, S.; **Ly, C.**; Malkan, M. A.; “[Star Formation Rates and Metallicities of K-selected Star Forming Galaxies at \$z \sim 2\$](#) ”, 2008, *Astrophysical Journal*, 691, 140
30. Walker, R. C.; **Ly, C.**; Junor, W.; Hardee, P. E.; “[A VLBA movie of the jet launch region in M87](#)”, 2008, *Journal of Physics Conference Series: “The Universe Under the Microscope - Astrophysics at High Angular Resolution”*, 131, 012053
31. Nagao, T.; Sasaki, S. S.; Maiolino, R.; Grady, C.; Kashikawa, N.; **Ly, C.**; Malkan, M. A.; Motohara, K.; Murayama, T.; Schaerer, D.; Shioya, Y.; Taniguchi, T.; “[A Photometric Survey for Ly \$\alpha\$ -\[He II\] Dual Emitters: Searching for Population III Stars in High-redshift Galaxies](#)”, 2008, *Astrophysical Journal*, 680, 100
32. Nagao, T.; Murayama, T.; Maiolino, R.; Marconi, A.; Kashikawa, N.; Ajiki, M.; Hattori, T.; **Ly, C.**; Malkan, M.; Motohara, K.; Ohta, K.; Sasaki, S.; Shioya, Y.; Taniguchi, Y.; “[High-redshift Ly \$\alpha\$ emitters with a large equivalent width: Properties of i-dropout galaxies with an NB921-band depression in the Subaru Deep Field](#)”, 2007, *Astronomy & Astrophysics*, 468, 877
33. Kashikawa, N.; Shimasaku, K.; Malkan, M. A.; Doi, M.; Matsuda, Y.; Ouchi, M.; Taniguchi, Y.; **Ly, C.**; Nagao, T.; Iye, M.; Motohara, K.; Murayama, T.; Murozono, K.; Nariai, K.; Ohta, K.; Okamura, S.; Sasaki, T.; Shioya, Y.; Umemura, M.; “[The End of the Reionization Epoch Probed by Lyman- \$\alpha\$ Emitters at \$z = 6.5\$ in the Subaru Deep Field](#)”, 2006, *Astrophysical Journal*, 648, 7
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35. Brotherton, M. S.; **Ly, C.**; Wills, B. J.; Laurent-Muehleisen, S. A.; van Breugel, W.; Antonucci, R. R. J.; “[Multiband VLA Observations of the Faint Radio Core of 3CR 68.1](#)”, 2002, *Astronomical Journal*, 124, 1943

Non-refereed and Conference Proceedings:

1. Rudnick, G.; et al. (30 co-authors); “[The need for community access to highly multiplexed spectroscopy: DESI availability in the age of LSST](#)”, 2014, White paper submitted to the NRC's Committee on a Strategy to Optimize the U.S. OIR System in the Era of the LSST
2. Walker, R. C.; **Ly, C.**; Junor, W.; Hardee, P. E.; “[Imaging a Jet Base - Prospects with M87](#)”, 2009, *Astronomical Society of the Pacific Conference Series: “Approaching Micro-Arcsecond Resolution with VSOP-2: Astrophysics and Technology”*, 402, 227
3. Walker, R. C.; **Ly, C.**; Junor, W.; Hardee, P. E.; “[Progress Toward a VLBA Movie of the Jet Collimation Region in M87](#)”, 2008, *Astronomical Society of the Pacific Conference Series: “Extragalactic Jets: Theory and Observation from Radio to Gamma Ray”*, 386, 87
4. Cameron, P. B.; Grcevich, J.; Gugliucci, N.; Hess, K.; **Ly, C.**; Schillemat, K.; Shetyia, A.; Simpson,

C.; Stilp, A.; Venkata, U. R.; Zeiger, B.; “*Radio observations of BD +60 73 = IGR J00370+6122*”, 2004, *ATel*, 314